

IN THE CLAIMS

Claim 1. (Currently Amended) A pitch sensor tool for a dual stem boring or drilling machine ~~having a stem and a drilling head~~, comprising:

a generally cylindrical housing adapted to be coupled to the dual ~~said~~ stem of said boring or drilling machine and to a ~~said~~ drilling head, the housing comprising an exterior section adapted to be coupled to an outer stem of the dual stem, and an inner section adapted to be coupled to an inner stem of the dual stem,

a pitch sensing device, the pitch sensing device being disposed in or on the exterior section ~~housing~~ and being adapted to transmit a reading of the sensed pitch of the pitch sensor tool,

wherein the interior and exterior sections are independent such that, in use, the interior section may rotate while the exterior section remains stationary.

Claim 2. (Original) The pitch sensor tool of claim 1, wherein the pitch sensing device is fixedly mounted in or on the pitch sensing tool and separated therefrom by a shock absorbing material.

Claim 3. (Previously Presented) The pitch sensor tool of claim 1, wherein pitch sensing device is mounted within a compartment within the pitch sensing tool.

Claims 4-8. (Cancelled).

Claim 9. (Previously Presented) The pitch sensor tool of claim 1, wherein the pitch sensing device is mounted in or on the pitch sensing tool at perfect zero percent prior to use,

whereby when the pitch sensing tool is in an actual horizontal position, said reading of the sensed pitch transmitted by the pitch sensing device is zero.

Claim 10. (Previously Presented) The pitch sensor tool of any of claim 1, further including a female engagement portion for engagement, in use, by a male engagement portion of the stem.

Claim 11. (Previously Presented) The pitch sensor tool of claim 1, further including a male engagement portion for engagement, in use, by a female engagement portion of the drilling head.

Claim 12. (Previously Presented) The pitch sensor tool of any of claim 1, further including a battery compartment housing a battery for powering the pitch sensing device.

Claim 13. (Currently Amended) A boring or drilling tool, comprising, the pitch sensing tool of one ~~any~~ of the preceding claims, and a drilling head, the drilling head including a drill bit.

Claim 14. (Original) The boring or drilling tool of claim 13, wherein the drilling head includes a housing having a clock sensor mounted therein, the dock sensor being adapted to transmit a reading indicative of the sensed angular position of the drill bit.

Claim 15. (Previously Presented) A stem boring or drilling machine, comprising:
a stem, a drive section for applying rotational energy to the stem,

a pitch sensor tool according to claim 1, and a drilling head, the drilling head including a drill bit,

wherein the pitch sensor tool is disposed between the stem and the drilling head and mechanically coupled to each.

Claims 16-18. (Canceled).